

M 5.4, 54 km SW of Masachapa, Nicaragua

Origin Time: 2022-04-23 22:10:11 UTC (Sat 16:10:11 local)

Location: 11.4859° N 86.9064° W Depth: 35.0 km

Created: 2 hours, 3 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

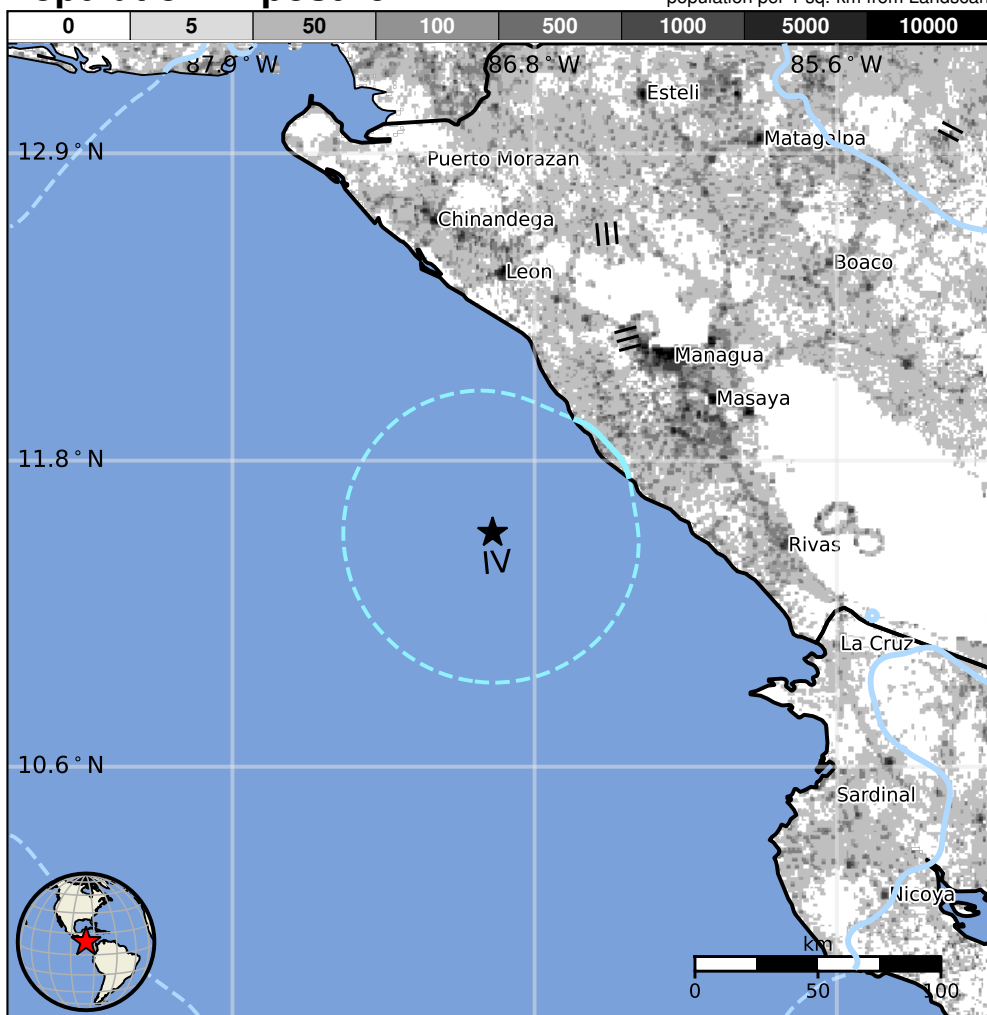


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	5,222k	24k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and adobe block construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-17	349	4.1	V(2,250k)	1
2001-05-08	308	5.7	VII(562k)	1
1972-12-23	128	6.2	VIII(311k)	11k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Masachapa	5k
III	San Rafael del Sur	30k
III	El Rosario	3k
III	Carlos Fonseca Amador	5k
III	Santa Teresa	6k
III	Diriamba	35k
III	Leon	145k
III	Chinandega	126k
III	Masaya	130k
III	Matagalpa	109k
III	Managua	973k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000hfxm#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000hfxm